



Practitioner's Docket No. MPI99-017DV1AM

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Hodge, Martin R., et al
Application No.: 09/894,749 Group No.: 1652
Filed: June 27, 2001 Examiner: Rao, M. N.
For: NOVEL RGS-CONTAINING MOLECULES AND USES THEREOF

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT TRANSMITTAL

1. Transmitted herewith for this application is/are:
 - a. This Amendment Transmittal which includes a request for extension of time (3 pages – in duplicate);
 - b. Amendment and Response (5 pages);
 - c. Statement of Biological Culture Deposit (3 pages);
 - d. ATTC Deposit Receipt (1 page); and
 - e. Postcard Receipt.

STATUS

2. Applicant is other than a small entity.

PETITION FOR EXTENSION OF TIME

3. The proceedings herein are for a patent application and the provisions of 37 C.F.R. 1.136 apply. Applicant petitions for an extension of time under 37 C.F.R. 1.136 (fees: 37 C.F.R. 1.17(a)(1)-(3)) for a two month extension:

CERTIFICATION UNDER 37 C.F.R. SECTIONS 1.8(a) and 1.10*

I hereby certify that, on the date shown below, this correspondence is being:

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deposited with the United States Postal Service in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

37 C.F.R. SECTION 1.8(a)

37 C.F.R. SECTION 1.10*

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transmitted by facsimile to the Patent and Trademark Office.



Signature

Date: June 14, 2004

Diana Gentile
(type or print name of person certifying)

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Fee: \$420.00

Extension fee due with this request \$420.00

If an additional extension of time is required, please consider this a petition therefor.

FEE FOR CLAIMS

4. The fee for claims (37 C.F.R. 1.16(b)-(d)) has been calculated as shown below:

(Col. 1)	(Col. 2)	(Col. 3)	OTHER THAN A SMALL ENTITY
Claims Remaining After Amendment	Highest No. Previously Paid For	Present Extra Rate	
Total 0	Minus 0	= 0	\$18.00 = \$0.00
Indep. 0	Minus 0	= 0	\$86.00 = \$0.00
First Presentation of Multiple Dependent Claims	0		\$290.00 = \$0.00
		Total Addit. Fee	\$0.00

Total additional fee for claims required \$0.00

FEE PAYMENT

5. Charge Account No. 501668 the sum of \$420.00 (which includes the \$420.00 extension fee and the \$0.00 additional fee for claims). A duplicate of this transmittal is attached.

FEE DEFICIENCY

6. If any additional extension and/or fee is required, charge Account No. 501668.
If any additional fee for claims is required, charge Account No. 501668.

Practitioner's Docket No. MPI99-017DV1AM

7. Correspondence Address

Direct all future correspondence to:

Customer Number 30405
OR
Intellectual Property Department
MILLENNIUM PHARMACEUTICALS, INC.
40 Landsdowne Street
Cambridge, MA 02139

June 14, 2004

MILLENNIUM PHARMACEUTICALS, INC.

By



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PATENT

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In re application of:	Hodge, Martin R., et al		
Application No.:	09/894749	Group No.:	1652
Filed:	June 27, 2001	Examiner:	RAO, M. N.
For:	NOVEL RGS-CONTAINING MOLECULES AND USES THEREOF		

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT AND RESPONSE

Sir: In response to the Office action of January 14, 2004, please amend the above-identified application as follows:

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims are reflected in the listing of claims which begins on page 3 of this paper.

Remarks/Arguments begin on page 4 of this paper.

06/18/2004 MAHMED1 00000026 501668 09894749

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CERTIFICATION UNDER 37 C.F.R. SECTIONS 1.8(a) and 1.10*

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IN THE SPECIFICATION

At page 1, first paragraph, please replace the text with the following paragraph:

This application is a divisional of U.S. Application Serial No. 09/244,314, filed February 4, 1999; now U.S. Patent No. 6,274,362, herein incorporated by reference in its entirety.

At page 5, line 18 through line 28, please replace the paragraphs with the following text:

Figure 1 provides the amino sequences for the h16395 and m1975 proteins. Figure 1A and B provide the human (SEQ ID NO:2) and murine (SEQ ID NO:4) sequences, respectively; the RGS domain is underlined. Figure 1C provides the alignment of the human sequence with the murine orthologue.

Figure 2 shows the amino acid sequence alignment for the proteins encoded by h16395 (SEQ ID NO:2) with human RGS2, RGS4, and RGS5. The RGS proteins share closest homology to human RGS5 protein (about 44% sequence identity for the human sequence) as compared to 38% and 39% for RGS2 and RGS4, respectively. The sequence identity was determined by the Clustal method. The region of homology is observed for the RGS domains, amino acids 82-201, with little homology observed for the N-terminal, 1-81, and C-terminal, 202-235, amino acids.